

APPENDIX A

Table A1: CWSA Design Guidelines

Criteria	CWSA Guideline	Design Value
1. Domestic Demand		
a. Standpost Demand for 80% of population	20lcd	20lcd
b. House connection for 20% of population	60lcd	60lcd
2. Industrial and Commercial Demand (...% of 1)	10%	10%
3. Unaccounted for Losses (...% of 1+2)	8-10 %	10%
4. Design Period for Distribution	10years	10years
5. Design Period for Transmission	15years	15years
6. Design Period for Source Capacity	15years	15years
7. Peak Hour Demand Factor	2.5	2.5
8. Peak Day Demand Factor	1.2	1.2
9. Population per Tap outlet	300	300
10. Service Reservoir Capacity (...% of Daily Demand)	35-40%	36.4%

Population Projections

The present population $P_0 = 7099$

The projected population is computed as follows:

$$P_n = P_0 (1 + r)^n$$

Where:

- P_n = Design Projected Population
- P_0 = Present Population= 7,099
- r = Regional Population Growth Rate=2.6%
- n = Projected Design Period =15 years

$$15 \text{ year projected Population } P_{15} = 7,099 (1 + 0.026)^{15} = 10,433$$

Table A2. Population and projections

BONWIRE	POPULATION
2000	5085
2013	7099
2028	10433

Water Demand Projections

Present Water Demand (2013)

$$\text{Domestic} = 7,099 \times [(60 \times 0.2) + (20 \times 0.8)] = 198,772\text{pd}$$

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